

IN THE UNITED STATES  
PATENT AND TRADEMARK OFFICE

**Declaration and Power of Attorney**

As a below named inventor, we hereby declare that:

Our residence, post office address and citizenship are stated below next to our names.

We believe we are the original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled **FOUR-PORT WAVELENGTH-SELECTIVE CROSSBAR SWITCHES (4WCS) USING RECIPROCAL WDM MUX-DEMUX AND OPTICAL CIRCULATOR COMBINATION**, the specification of which is attached hereto.

We hereby state that we have reviewed and understand the contents of the above identified specification, including the claims, as amended by an amendment, if any, specifically referred to in this oath or declaration.

We acknowledge the duty to disclose all information known to us which is material to patentability as defined in Title 37, Code of Federal Regulations, 1.56.

We hereby claim foreign priority benefits under Title 35, United States Code, 119 of any foreign application(s) for patent or inventors' certificate listed below and have also identified below any foreign application for patent or inventors' certificate having a filing date before that of the application on which priority is claimed:

**None**

We hereby claim the benefit under Title 35, United States Code, 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, 112, we acknowledge the duty to disclose all information known to us to be material to patentability as defined in Title 37, Code of Federal Regulations, 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

**60/276,485 filed March 19, 2001**

We hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

We hereby appoint the following attorney(s) with full power of substitution and revocation, to prosecute said application, to make alterations and amendments therein, to receive the patent, and to transact all business in the Patent and Trademark Office connected therewith:

Alfred G. Steinmetz	(Reg. No. 22971)
Samuel H. Dworetsky	(Reg. No. 27873)
Robert B. Levy	(Reg. No. 28234)
Jeffrey M. Navon	(Reg. No. 32711)
Thomas A. Restaino	(Reg. No. 33444)
Michele L. Conover	(Reg. No. 34962)
Gary H. Monka	(Reg. No. 35290)
Susan E. McGahan	(Reg. No. 35948)
Cedric G. DeLaCruz	(Reg. No. 36498)
Robert T. Canavan	(Reg. No. 37592)
Benjamin S. Lee	(Reg. No. 42787)
Christine Szwerc	(Reg. No. 43177)
Thomas M. Isaacson	(Reg. No. 44166)

We also appoint Thomas H. Jackson (Reg. No. 29808) and Joseph P. Curtin (Reg. No. 34571) of Banner & Witcoff as associate attorneys, with full power to prosecute said application, to make alterations and amendments therein, and to transact all business in the U.S. Patent and Trademark Office connected therewith.

Please address all correspondence to Mr. S. H. Dworetsky, AT&T Corp., P.O. Box 4110, Middletown, New Jersey 07748. Telephone calls should be made to Michele L. Conover by dialing (908) 221-5773.

Full name of 1<sup>st</sup> joint inventor: Mark D. Feuer

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence: 13 Dana Lane, Colts Neck, New Jersey 07722

Citizenship: U.S.

Post Office Address: 13 Dana Lane,  
Colts Neck, New Jersey 07722

Full name of 2<sup>nd</sup> joint inventor: Nicholas J. Frigo

Inventor's signature Nicholas J. Frigo Date 12/12/2001

Residence: 160 Ambassador Drive, Red Bank, New Jersey 07701

Citizenship: U.S.

Post Office Address: 160 Ambassador Drive  
Red Bank, New Jersey 07701

Full name of 3<sup>rd</sup> joint inventor: Cedric F. Lam

Inventor's signature Cedric F. Lam Date 12/12/2001

Residence: 202 Knollwood Drive, Middletown, New Jersey 07748

Citizenship: Hong Kong SAR, China

Post Office Address: 202 Knollwood Drive  
Middletown, New Jersey 07748

IN THE UNITED STATES  
PATENT AND TRADEMARK OFFICE

**Declaration and Power of Attorney**

As a below named inventor, we hereby declare that:

Our residence, post office address and citizenship are stated below next to our names.

We believe we are the original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled **FOUR-PORT WAVELENGTH-SELECTIVE CROSSBAR SWITCHES (4WCS) USING RECIPROCAL WDM MUX-DEMUX AND OPTICAL CIRCULATOR COMBINATION**, the specification of which is attached hereto.

We hereby state that we have reviewed and understand the contents of the above identified specification, including the claims, as amended by an amendment, if any, specifically referred to in this oath or declaration.

We acknowledge the duty to disclose all information known to us which is material to patentability as defined in Title 37, Code of Federal Regulations, 1.56.

We hereby claim foreign priority benefits under Title 35, United States Code, 119 of any foreign application(s) for patent or inventors' certificate listed below and have also identified below any foreign application for patent or inventors' certificate having a filing date before that of the application on which priority is claimed:

**None**

We hereby claim the benefit under Title 35, United States Code, 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, 112, we acknowledge the duty to disclose all information known to us to be material to patentability as defined in Title 37, Code of Federal Regulations, 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

**60/276,485 filed March 19, 2001**

We hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

We hereby appoint the following attorney(s) with full power of substitution and revocation, to prosecute said application, to make alterations and amendments therein, to receive the patent, and to transact all business in the Patent and Trademark Office connected therewith:

Alfred G. Steinmetz	(Reg. No. 22971)
Samuel H. Dworetsky	(Reg. No. 27873)
Robert B. Levy	(Reg. No. 28234)
Jeffrey M. Navon	(Reg. No. 32711)
Thomas A. Restaino	(Reg. No. 33444)
Michele L. Conover	(Reg. No. 34962)
Gary H. Monka	(Reg. No. 35290)
Susan E. McGahan	(Reg. No. 35948)
Cedric G. DeLaCruz	(Reg. No. 36498)
Robert T. Canavan	(Reg. No. 37592)
Benjamin S. Lee	(Reg. No. 42787)
Christine Szwerc	(Reg. No. 43177)
Thomas M. Isaacson	(Reg. No. 44166)

We also appoint Thomas H. Jackson (Reg. No. 29808) and Joseph P. Curtin (Reg. No. 34571) of Banner & Witcoff as associate attorneys, with full power to prosecute said application, to make alterations and amendments therein, and to transact all business in the U.S. Patent and Trademark Office connected therewith.

Please address all correspondence to Mr. S. H. Dworetsky, AT&T Corp., P.O. Box 4110, Middletown, New Jersey 07748. Telephone calls should be made to Michele L. Conover by dialing (908) 221-5773.

Full name of 1<sup>st</sup> joint inventor: Mark D. Feuer

Inventor's signature Mark D. Feuer Date 12/15/01

Residence: 13 Dana Lane, Colts Neck, New Jersey 07722

Citizenship: U.S.

Post Office Address: 13 Dana Lane,  
Colts Neck, New Jersey 07722

Full name of 2<sup>nd</sup> joint inventor: Nicholas J. Frigo

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence: 160 Ambassador Drive, Red Bank, New Jersey 07701

Citizenship: U.S.

Post Office Address: 160 Ambassador Drive  
Red Bank, New Jersey 07701

Full name of 3<sup>rd</sup> joint inventor: Cedric F. Lam

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence: 202 Knollwood Drive, Middletown, New Jersey 07748

Citizenship: Hong Kong SAR, China

Post Office Address: 202 Knollwood Drive  
Middletown, New Jersey 07748